

RECEIVED

JUL 16 2003

TECH CENTER 1600



1600

BEST AVAILABLE COPY

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,586D

DATE: 07/14/2003

TIME: 10:28:45

Input Set : A:\701586

Output Set: N:\CRF4\07142003\I701586D.raw

3 <110> APPLICANT: Kock, Michael
 4 Hoeger, Thomas
 5 Kroeger, Burkhard
 6 Otterbach, Bernd
 7 Lubisch, Wilfried
 8 Lemaire, Hans-Georg
 10 <120> TITLE OF INVENTION: Poly (ADP-ribose) polymerase-gene
 12 <130> FILE REFERENCE: 0050/49100
 14 <140> CURRENT APPLICATION NUMBER: US 09/701,586D
 C--> 15 <141> CURRENT FILING DATE: 2000-11-30
 17 <150> PRIOR APPLICATION NUMBER: PCT/EP99/03889
 18 <151> PRIOR FILING DATE: 1999-06-04
 20 <160> NUMBER OF SEQ ID NOS: 35
 22 <170> SOFTWARE: PatentIn/WordPerfect
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 1843
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Homo sapiens
 29 <220> FEATURE:
 30 <221> NAME/KEY: CDS
 31 <222> LOCATION: (3)...(1715)
 32 <223> OTHER INFORMATION: product is Poly ADP Ribose Polymerase; from brain tissue
 34 <400> SEQUENCE: 1
 36 cc atg gcg gcg cg⁴⁷
 37 Met Ala Ala Arg Arg Arg Ser Thr Gly Gly Gly Arg Ala Arg
 38 1 5 10 15
 40 gca tta aat gaa agc aaa aga gtt aat aat ggc aac acg gct cca gaa 95
 41 Ala Leu Asn Glu Ser Lys Arg Val Asn Asn Gly Asn Thr Ala Pro Glu
 42 20 25 30
 44 gac tct tcc cct gcc aag aaa act cgt aga tgc cag aga cag gag tcg 143
 45 Asp Ser Ser Pro Ala Lys Lys Thr Arg Arg Cys Gln Arg Gln Glu Ser
 46 35 40 45
 48 aaa aag atg cct gtc gct gga gga aag gct aat aag gac agg aca gaa 191
 49 Lys Lys Met Pro Val Ala Gly Gly Lys Ala Asn Lys Asp Arg Thr Glu
 50 50 55 60
 52 gac aag caa gat gaa tct gtc aag gcc ttg ctg tta aag ggc aaa gct 239
 53 Asp Lys Gln Asp Glu Ser Val Lys Ala Leu Leu Leu Lys Gly Lys Ala
 54 65 70 75
 56 cct gtc gac cca gag tgt aca gcc aag gtc ggg aag gct cat gtc tat 287
 57 Pro Val Asp Pro Glu Cys Thr Ala Lys Val Gly Lys Ala His Val Tyr
 58 80 85 90 95
 60 tgt gaa gga aat gat gtc tat gat gtc atg cta aat cag acc aat ctc 335
 61 Cys Glu Gly Asn Asp Val Tyr Asp Val Met Leu Asn Gln Thr Asn Leu

See page 6.

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,586D

DATE: 07/14/2003

TIME: 10:28:45

Input Set : A:\701586

Output Set: N:\CRF4\07142003\I701586D.raw

62	100	105	110	
64 cag ttc aac aac aac aag tac tat ctg att cag cta tta gaa gat gat				383
65 Gln Phe Asn Asn Asn Lys Tyr Tyr Leu Ile Gln Leu Leu Glu Asp Asp				
66 115	120	125		
68 gcc cag agg aac ttc agt gtt tgg atg aga tgg ggc cga gtt ggg aaa				431
69 Ala Gln Arg Asn Phe Ser Val Trp Met Arg Trp Gly Arg Val Gly Lys				
70 130	135	140		
72 atg gga cag cac agc ctg gtg gct tgt tca ggc aat ctc aac aag gcc				479
73 Met Gly Gln His Ser Leu Val Ala Cys Ser Gly Asn Leu Asn Lys Ala				
74 145	150	155		
76 aag gaa atc ttt cag aag aaa ttc ctt gac aaa acg aaa aac aat tgg				527
77 Lys Glu Ile Phe Gln Lys Lys Phe Leu Asp Lys Thr Lys Asn Asn Trp				
78 160	165	170	175	
80 gaa gat cga gaa aag ttt gag aag gtg cct gga aaa tat gat atg cta				575
81 Glu Asp Arg Glu Lys Phe Glu Lys Val Pro Gly Lys Tyr Asp Met Leu				
82 180	185	190		
84 cag atg gac tat gcc acc aat act cag gat gaa gag gaa aca aag aaa				623
85 Gln Met Asp Tyr Ala Thr Asn Thr Gln Asp Glu Glu Glu Thr Lys Lys				
86 195	200	205		
88 gag gaa tct ctt aaa tct ccc ttg aag cca gag tca cag cta gat ctt				671
89 Glu Glu Ser Leu Lys Ser Pro Leu Lys Pro Glu Ser Gln Leu Asp Leu				
90 210	215	220		
92 cgg gta cag gag tta ata aag ttg atc tgt aat gtt cag gcc atg gaa				719
93 Arg Val Gln Glu Leu Ile Lys Leu Ile Cys Asn Val Gln Ala Met Glu				
94 225	230	235		
96 gaa atg atg atg gaa atg aag tat aat acc aag aaa gcc cca ctt ggg				767
97 Glu Met Met Met Glu Met Lys Tyr Asn Thr Lys Lys Ala Pro Leu Gly				
98 240	245	250	255	
100 aag ctg aca gtg gca caa atc aag gca ggt tac cag tct ctt aag aag				815
101 Lys Leu Thr Val Ala Gln Ile Lys Ala Gly Tyr Gln Ser Leu Lys Lys				
102 260	265	270		
104 att gag gat tgt att cgg gct ggc cag cat gga cga gct ctc atg gaa				863
105 Ile Glu Asp Cys Ile Arg Ala Gly Gln His Gly Arg Ala Leu Met Glu				
106 275	280	285		
108 gca tgc aat gaa ttc tac acc agg att ccg cat gac ttt gga ctc cgt				911
109 Ala Cys Asn Glu Phe Tyr Thr Arg Ile Pro His Asp Phe Gly Leu Arg				
110 290	295	300		
112 act cct cca cta atc cgg aca cag aag gaa ctg tca gaa aaa ata caa				959
113 Thr Pro Pro Leu Ile Arg Thr Gln Lys Glu Leu Ser Glu Lys Ile Gln				
114 305	310	315		
116 tta cta gag gct ttg gga gac att gaa att gct att aag ctg gtg aaa				1007
117 Leu Leu Glu Ala Leu Gly Asp Ile Glu Ile Ala Ile Lys Leu Val Lys				
118 320	325	330	335	
120 aca gag cta caa agc cca gaa cac cca ttg gac caa cac tat aga aac				1055
121 Thr Glu Leu Gln Ser Pro Glu His Pro Leu Asp Gln His Tyr Arg Asn				
122 340	345	350		
124 cta cat tgt gcc ttg cgc ccc ctt gac cat gaa agt tac gag ttc aaa				1103
125 Leu His Cys Ala Leu Arg Pro Leu Asp His Glu Ser Tyr Glu Phe Lys				
126 355	360	365		

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,586D

DATE: 07/14/2003

TIME: 10:28:45

Input Set : A:\701586

Output Set: N:\CRF4\07142003\I701586D.raw

128	gtg	att	tcc	cag	tac	ctt	caa	tct	acc	cat	gct	ccc	aca	cac	agc	gac	1151
129	Val	Ile	Ser	Gln	Tyr	Leu	Gln	Ser	Thr	His	Ala	Pro	Thr	His	Ser	Asp	
130	370						375						380				
132	tat	acc	atg	acc	ttg	ctg	gat	ttg	ttt	gaa	gtg	gag	aag	gat	ggt	gag	1199
133	Tyr	Thr	Met	Thr	Leu	Leu	Asp	Leu	Phe	Glu	Val	Glu	Lys	Asp	Gly	Glu	
134	385						390						395				
136	aaa	gaa	gcc	tcc	aga	gag	gac	ctt	cat	aac	agg	atg	ctt	cta	tgg	cat	1247
137	Lys	Glu	Ala	Phe	Arg	Glu	Asp	Leu	His	Asn	Arg	Met	Leu	Leu	Trp	His	
138	400						405					410			415		
140	ggt	tcc	agg	atg	agt	aac	tgg	gtg	gga	atc	ttg	agc	cat	ggg	ctt	cga	1295
141	Gly	Ser	Arg	Met	Ser	Asn	Trp	Val	Gly	Ile	Leu	Ser	His	Gly	Leu	Arg	
142	420						425					430					
144	att	gcc	cca	cct	gaa	gct	ccc	atc	aca	ggt	tac	atg	ttt	ggg	aaa	gga	1343
145	Ile	Ala	Pro	Pro	Glu	Ala	Pro	Ile	Thr	Gly	Tyr	Met	Phe	Gly	Lys	Gly	
146	435						440					445					
148	atc	tac	ttt	gct	gac	atg	tct	tcc	aag	agt	gcc	aat	tac	tgc	ttt	gcc	1391
149	Ile	Tyr	Phe	Ala	Asp	Met	Ser	Ser	Lys	Ser	Ala	Asn	Tyr	Cys	Phe	Ala	
150	450						455					460					
152	tct	cgc	cta	aag	aat	aca	gga	ctg	ctg	ctc	tta	tca	gag	gta	gct	cta	1439
153	Ser	Arg	Leu	Lys	Asn	Thr	Gly	Leu	Leu	Leu	Leu	Ser	Glu	Val	Ala	Leu	
154	465						470					475					
156	ggt	cag	tgt	aat	gaa	cta	cta	gag	gcc	aat	cct	aag	gcc	gaa	gga	ttg	1487
157	Gly	Gln	Cys	Asn	Glu	Leu	Leu	Glu	Ala	Asn	Pro	Lys	Ala	Glu	Gly	Leu	
158	480						485					490			495		
160	ctt	caa	ggt	aaa	cat	agc	acc	aag	ggg	ctg	ggc	aag	atg	gct	ccc	agt	1535
161	Leu	Gln	Gly	Lys	His	Ser	Thr	Lys	Gly	Leu	Gly	Lys	Met	Ala	Pro	Ser	
162	500						505					510					
164	tct	gcc	cac	ttc	gtc	acc	ctg	aat	ggg	agt	aca	gtg	cca	tta	gga	cca	1583
165	Ser	Ala	His	Phe	Val	Thr	Leu	Asn	Gly	Ser	Thr	Val	Pro	Leu	Gly	Pro	
166	515						520					525					
168	gea	agt	gac	aca	gga	att	ctg	aat	cca	gat	ggt	tat	acc	ctc	aac	tac	1631
169	Ala	Ser	Asp	Thr	Gly	Ile	Leu	Asn	Pro	Asp	Gly	Tyr	Thr	Leu	Asn	Tyr	
170	530						535					540					
172	aat	gaa	tat	att	gta	tat	aac	ccc	aac	cag	gtc	cgt	atg	cgg	tac	ctt	1679
173	Asn	Glu	Tyr	Ile	Val	Tyr	Asn	Pro	Asn	Gln	Val	Arg	Met	Arg	Tyr	Leu	
174	545						550					555					
176	tta	aag	gtt	cag	ttt	aat	ttc	ctt	cag	ctg	tgg	tga	atgttgatat				1725
177	Leu	Lys	Val	Gln	Phe	Asn	Phe	Leu	Gln	Leu	Trp						
178	560						565					570					
180	taaataaacc	agagatctga	tcttcaagca	agaaaataag	cagtgttgta	cttgtgaaatt											1785
182	ttgtgatatt	ttatgtataa	aaaactgtac	aggtctaaaa	aaaaaaaaaa	aaaaaaaaaa											1843
185	<210>	SEQ ID NO:	2														
186	<211>	LENGTH:	570														
187	<212>	TYPE:	PRT														
188	<213>	ORGANISM:	Homo sapiens														
190	<400>	SEQUENCE:	2														
192	Met	Ala	Ala	Arg	Arg	Arg	Arg	Ser	Thr	Gly	Gly	Gly	Arg	Ala	Arg	Ala	
193	1			5						10				15			
195	Leu	Asn	Glu	Ser	Lys	Arg	Val	Asn	Asn	Gly	Asn	Thr	Ala	Pro	Glu	Asp	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/701,586D

DATE: 07/14/2003
TIME: 10:28:45

Input Set : A:\701586
Output Set: N:\CRF4\07142003\I701586D.raw

196	20	25	30	
198	Ser Ser Pro Ala Lys Lys Thr Arg Arg Cys Gln Arg Gln Glu Ser Lys			
199	35	40	45	
201	Lys Met Pro Val Ala Gly Gly Lys Ala Asn Lys Asp Arg Thr Glu Asp			
202	50	55	60	
204	Lys Gln Asp Glu Ser Val Lys Ala Leu Leu Lys Gly Lys Ala Pro			
205	65	70	75	80
207	Val Asp Pro Glu Cys Thr Ala Lys Val Gly Lys Ala His Val Tyr Cys			
208	85	90	95	
210	Glu Gly Asn Asp Val Tyr Asp Val Met Leu Asn Gln Thr Asn Leu Gln			
211	100	105	110	
213	Phe Asn Asn Asn Lys Tyr Tyr Leu Ile Gln Leu Leu Glu Asp Asp Ala			
214	115	120	125	
216	Gln Arg Asn Phe Ser Val Trp Met Arg Trp Gly Arg Val Gly Lys Met			
217	130	135	140	
219	Gly Gln His Ser Leu Val Ala Cys Ser Gly Asn Leu Asn Lys Ala Lys			
220	145	150	155	160
222	Glu Ile Phe Gln Lys Lys Phe Leu Asp Lys Thr Lys Asn Asn Trp Glu			
223	165	170	175	
225	Asp Arg Glu Lys Phe Glu Lys Val Pro Gly Lys Tyr Asp Met Leu Gln			
226	180	185	190	
228	Met Asp Tyr Ala Thr Asn Thr Gln Asp Glu Glu Thr Lys Lys Glu			
229	195	200	205	
231	Glu Ser Leu Lys Ser Pro Leu Lys Pro Glu Ser Gln Leu Asp Leu Arg			
232	210	215	220	
234	Val Gln Glu Leu Ile Lys Leu Ile Cys Asn Val Gln Ala Met Glu Glu			
235	225	230	235	240
237	Met Met Met Glu Met Lys Tyr Asn Thr Lys Lys Ala Pro Leu Gly Lys			
238	245	250	255	
240	Leu Thr Val Ala Gln Ile Lys Ala Gly Tyr Gln Ser Leu Lys Lys Ile			
241	260	265	270	
243	Glu Asp Cys Ile Arg Ala Gly Gln His Gly Arg Ala Leu Met Glu Ala			
244	275	280	285	
246	Cys Asn Glu Phe Tyr Thr Arg Ile Pro His Asp Phe Gly Leu Arg Thr			
247	290	295	300	
249	Pro Pro Leu Ile Arg Thr Gln Lys Glu Leu Ser Glu Lys Ile Gln Leu			
250	305	310	315	320
252	Leu Glu Ala Leu Gly Asp Ile Glu Ile Ala Ile Lys Leu Val Lys Thr			
253	325	330	335	
255	Glu Leu Gln Ser Pro Glu His Pro Leu Asp Gln His Tyr Arg Asn Leu			
256	340	345	350	
258	His Cys Ala Leu Arg Pro Leu Asp His Glu Ser Tyr Glu Phe Lys Val			
259	355	360	365	
261	Ile Ser Gln Tyr Leu Gln Ser Thr His Ala Pro Thr His Ser Asp Tyr			
262	370	375	380	
264	Thr Met Thr Leu Leu Asp Leu Phe Glu Val Glu Lys Asp Gly Glu Lys			
265	385	390	395	400
267	Glu Ala Phe Arg Glu Asp Leu His Asn Arg Met Leu Leu Trp His Gly			
268	405	410	415	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,586D

DATE: 07/14/2003

TIME: 10:28:45

Input Set : A:\701586

Output Set: N:\CRF4\07142003\I701586D.raw

270 Ser Arg Met Ser Asn Trp Val Gly Ile Leu Ser His Gly Leu Arg Ile
 271 420 425 430

273 Ala Pro Pro Glu Ala Pro Ile Thr Gly Tyr Met Phe Gly Lys Gly Ile
 274 435 440 445

276 Tyr Phe Ala Asp Met Ser Ser Lys Ser Ala Asn Tyr Cys Phe Ala Ser
 277 450 455 460

279 Arg Leu Lys Asn Thr Gly Leu Leu Leu Ser Glu Val Ala Leu Gly
 280 465 470 475 480

282 Gln Cys Asn Glu Leu Leu Glu Ala Asn Pro Lys Ala Glu Gly Leu Leu
 283 485 490 495

285 Gln Gly Lys His Ser Thr Lys Gly Leu Gly Lys Met Ala Pro Ser Ser
 286 500 505 510

288 Ala His Phe Val Thr Leu Asn Gly Ser Thr Val Pro Leu Gly Pro Ala
 289 515 520 525

291 Ser Asp Thr Gly Ile Leu Asn Pro Asp Gly Tyr Thr Leu Asn Tyr Asn
 292 530 535 540

294 Glu Tyr Ile Val Tyr Asn Pro Asn Gln Val Arg Met Arg Tyr Leu Leu
 295 545 550 555 560

297 Lys Val Gln Phe Asn Phe Leu Gln Leu Trp
 298 565 570

301 <210> SEQ ID NO: 3

302 <211> LENGTH: 2265

303 <212> TYPE: DNA

304 <213> ORGANISM: Homo sapiens

306 <220> FEATURE:

307 <221> NAME/KEY: CDS

308 <222> LOCATION: (242)...(1843)

309 <223> OTHER INFORMATION: product is Poly ADP Ribose Polymerase; from uterus tissue

311 <400> SEQUENCE: 3

313 tgggactgtt cgcctgactc ggcctgcccc agcctctgct tcaccccaact ggtggccaaa 60
 315 tagccgatgt ctaatcccccc acacaagctc atccccggcc tctgggattt ttgggaattc 120

317 tctccctaat tcacgcctga ggctcatgga gagttgcttag acctgggact gccctgggag 180

319 ggcacacacaa ccaggccggg tggcagccag gacctctccc atgtccctgc ttttcttggc 240

321 c atg gct cca aag ccg aag ccc tgg gta cag act gag ggc cct gag 286

322 Met Ala Pro Lys Pro Trp Val Gln Thr Glu Gly Pro Glu

323 1 5 10 15

325 aag aag ggc cgg cag gca gga agg gag gac ccc ttc cgc tcc 334

326 Lys Lys Lys Gly Arg Gln Ala Gly Arg Glu Asp Pro Phe Arg Ser

327 20 25 30

329 acc gct gag gcc ctc aag gcc ata ccc gca gag aag cgc ata atc cgc 382

330 Thr Ala Glu Ala Leu Lys Ala Ile Pro Ala Glu Lys Arg Ile Ile Arg

331 35 40 45

333 gtg gat cca aca tgt cca ctc agc agc aac ccc ggg acc cag gtg tat 430

334 Val Asp Pro Thr Cys Pro Leu Ser Ser Asn Pro Gly Thr Gln Val Tyr

335 50 55 60

337 gag gac tac aac tgc acc ctg aac cag acc aac atc gag aac aac aac 478

338 Glu Asp Tyr Asn Cys Thr Leu Asn Gln Thr Asn Ile Glu Asn Asn Asn

339 65 70 75

341 aac aag ttc tac atc atc cag ctg ctc caa gac agc aac cgc ttc 526

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/14/2003
PATENT APPLICATION: US/09/701,586D TIME: 10:28:46

Input Set : A:\701586
Output Set: N:\CRF4\07142003\I701586D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos. 2,3,4,5,6,7,9,10,11
Seq#:12; Xaa Pos. 1,2,6,7,9,10,11,12,13,14,16,17,18
Seq#:13; Xaa Pos. 6,7,8,9,10,11,12,13,16,17,21,22,24,25,26,27,28,29,31,32
Seq#:13; Xaa Pos. 33,41,42,43,48
Seq#:14; Xaa Pos. 1,2,3,4,5,6,7,9,10,11,12,13,14,16,17,18,19,20,21
Seq#:15; Xaa Pos. 2,3,4,5,6,7,8,9,10,12,13,15,16,20,21,22,23,24,25,26,27,28
Seq#:15; Xaa Pos. 29,30,31,32
Seq#:16; Xaa Pos. 2,3,4,6,8,9,10,11,14,16,18,19,20,21,22,24,25,26,28
Seq#:17; Xaa Pos. 2,4,5,6,8,9,10,11,12,13,14,15,16,18,19,20,21,22,23,24,25
Seq#:17; Xaa Pos. 26,27,33,34,35,38,39,40,41,42,43
Seq#:18; Xaa Pos. 4,8,11,12,13
Seq#:19; Xaa Pos. 2,3,4,6,7,9,13,15,16
Seq#:20; Xaa Pos. 2,3,4,6
Seq#:21; Xaa Pos. 2,3,5,6,7,8,10,11,12,14,15,16,17,18,19,20,21,22,24,26,27
Seq#:22; Xaa Pos. 2,3,4,6,7,8,10,11,12,13
Seq#:29; Xaa Pos. 2,3,4
Seq#:30; Xaa Pos. 2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:30; Xaa Pos. 24,25,26,27,28,29,30,31,32,33,34,36,37
Seq#:34; Xaa Pos. 36,48,51,52,53,57,68,72,74,80,85,89,92,106,122,126,147
Seq#:34; Xaa Pos. 156,160,173,177,189,191,202,205,212,226,242,245,275,277
Seq#:34; Xaa Pos. 280,291,302,304,313,332,336,337,338,340,342,370,385,393
Seq#:34; Xaa Pos. 404,467,470,475,492,493,540,543,545,558,575

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/701,586D

DATE: 07/14/2003
TIME: 10:28:46

Input Set : A:\701586
Output Set: N:\CRF4\07142003\I701586D.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:1432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0

M:341 Repeated in SeqNo=12
L:1464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
M:341 Repeated in SeqNo=13
L:1497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
M:341 Repeated in SeqNo=14
L:1524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
M:341 Repeated in SeqNo=15
L:1549 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
M:341 Repeated in SeqNo=16
L:1576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
M:341 Repeated in SeqNo=17
L:1601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:1620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:1642 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:1662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
M:341 Repeated in SeqNo=21
L:1689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:1805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:1824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
M:341 Repeated in SeqNo=30
L:1897 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:32
M:341 Repeated in SeqNo=34